



*Frederick County Energy Conservation
and Sustainability Initiatives*

FY'11 Annual Report

to the Board of County Commissioners

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Reporting Progress

- **Comprehensive Energy Plan**
- **Energy Conservation Committee**
- **Sustainable Action Plan for County Operations**



Why do we have these initiatives?

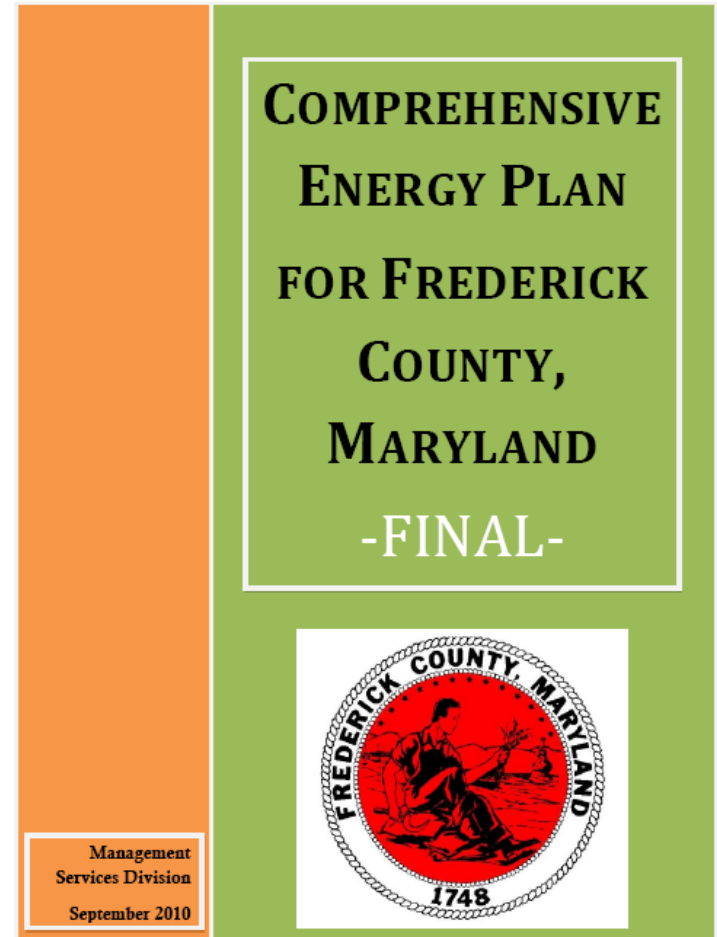
- Save the county and its taxpayers money through lowered operational costs
- Reduce the consumption of natural resources
- Coordinate and motivate continuous improvements by County Divisions and Agencies
- Meet strategic goals of the BoCC



Overview: Comprehensive Energy Plan

Defined annual goals to reduce Frederick County Government's non-renewable energy over a 15-year period by 50% or more in office buildings, facilities, and vehicle fleet

- 32 total recommendations
- 17 recommendations showing progress during FY2011
- 3.9% of reduction from baseline





Overview: Energy Conservation Committee

Formed in 2005, the ECC provides a forum for employees from many County departments and FCPS to share ideas, promote conservation efforts and learn new strategies for reducing energy use.



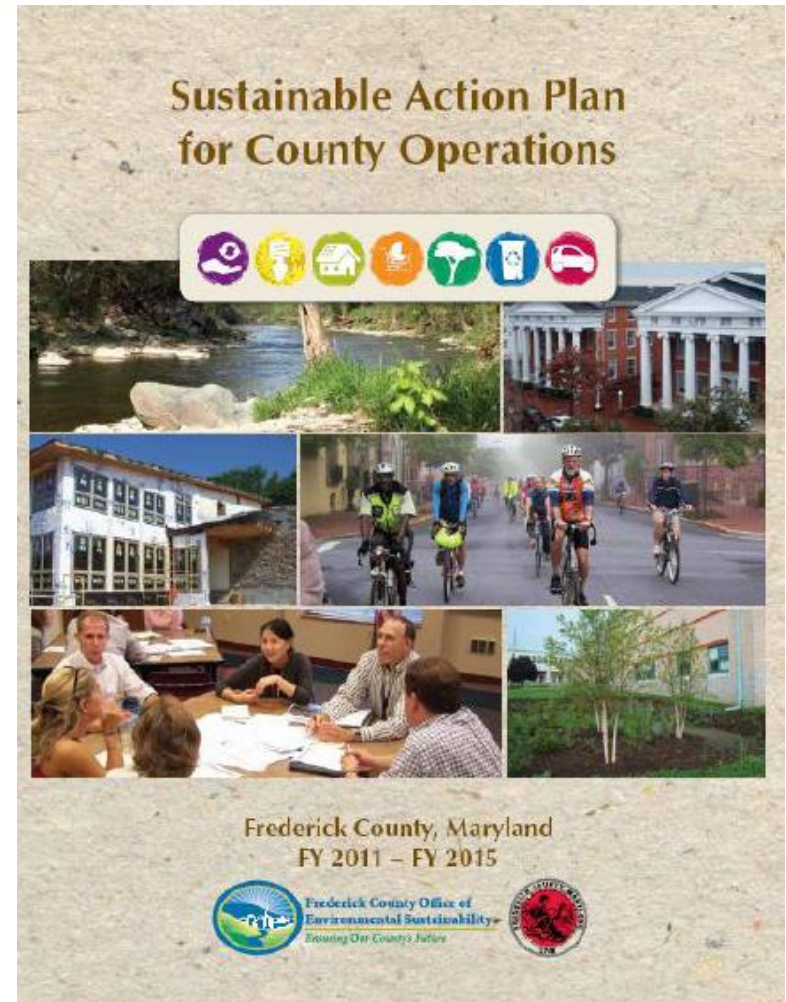
Overview: Sustainable Action Plan

Goals, Guiding Principles, Action Items & Measures of Success for 7 Program Areas:

- Leading by Example
- Energy & Emissions
- Green Building
- Responsible Purchasing
- Waste & Recycling
- Transportation Alternatives
- Green Infrastructure

Follow-up with Team and Lead Agencies

- More than 60 action items in progress or completed!!





FY11 Accomplishments:


- 21 additional building audits conducted (bringing total to 29)
- HVAC efficiency upgrades at Rose Hill Maintenance Shop, Senior Center, Pinecliff A-frame.
- LED lighting retrofits in Courthouse courtrooms and lobby
- Heat reflecting roof at Emmitsburg Community Center



- Fuel conservation saved 111,000 gallons = 10.5% reduction from FY2008 baseline
- Reduced expenses \$330,000 from FY08 baseline usage



Accomplishments: Continued...

- Brunswick Library achieved LEED Silver rating; 4 County employees earned LEED AP certification
 - Traffic lights upgraded to LEDs
 - County emissions inventory updated
 - Provided workshops for County employees to learn about energy conservation and cost savings
 - Hosted training on International Green Construction Code
 - Developed Food Waste Composting & Digestion recommendations
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- A photograph of a large, multi-story brick building, identified as Oakdale High School, with a large array of solar panels installed on its roof. The building has a central entrance with a small tower-like structure. The sky is clear and blue.
- Oakdale HS solar PV project installed and operational April 2011- synergy with FCPS



Outlook for FY2012:

- 2 Hybrid Transit buses placed in-service
- Use of heat reflecting TPO in roof replacements
- Highway Operations truck shed lighting retrofit
- Assessment of potential PV solar installation at the Health Department and ADC





FY2011

**On-going Annual Energy Savings
Achieved in Building Projects and
Vehicle Fuel Conservation**

\$358,100





6-Year Program Results !

Cumulative Savings with Fuel
Conservation

\$1.5 million

On-going Annual Savings with Fuel
Conservation

\$585,000